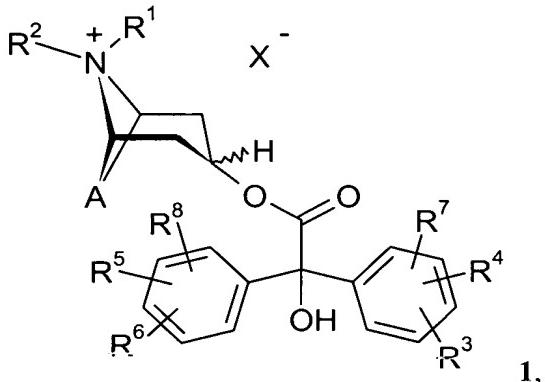


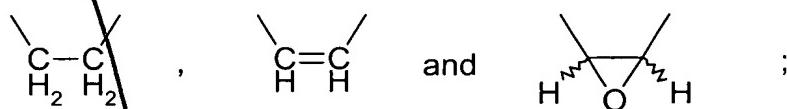
We Claim:

1. A compound of formula **1**



wherein:

A is a group selected from



X⁻ is an anion with a single negative charge;

R¹ and R² are each independently a C₁-C₄-alkyl optionally substituted with hydroxy or halogen; and

R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen, C₁-C₄-alkyl, C₁-C₄-alkyloxy, hydroxy, CF₃, CN, NO₂, or halogen,

with the proviso that at least one of the groups R³, R⁴, R⁵, R⁶, R⁷, and R⁸ is not hydrogen.

15

2. The compounds of formula **1** according to claim 1, wherein:

X⁻ is an anion selected from the group consisting of chloride, bromide, methylsulfate, 4-toluenesulfonate, and methanesulfonate;

R¹ and R² are each independently a group selected from the group consisting of methyl, ethyl, n-propyl, and isopropyl, each optionally substituted by hydroxy or fluorine; and

R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen, methyl, ethyl, methyloxy, ethyloxy, hydroxy, fluorine, chlorine, bromine, CN, CF₃, or NO₂.

3. The compound of formula 1 according to claim 1, wherein:

X⁻ is bromide;

R¹ and R² are each independently methyl or ethyl; and

R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen, methyl, methyloxy, fluorine,
5 chlorine, or bromine.

4. The compound of formula 1 according to claim 3, wherein:

R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen, fluorine, chlorine, or bromine.

10 5. The compound of formula 1 according to claim 4, wherein:

A is a group selected from



6. The compound of formula 1 according to claim 5, wherein:

15 R¹ and R² are each methyl; and

R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen or fluorine.

7. A pharmaceutical composition comprising a compound of formula 1 according to claim 1
and a pharmaceutically acceptable excipient and/or carrier.

20

8. A pharmaceutical composition comprising a compound of formula 1 according to claim 2
and a pharmaceutically acceptable excipient and/or carrier.

25

9. A pharmaceutical composition comprising a compound of formula 1 according to claim 3
and a pharmaceutically acceptable excipient and/or carrier.

10. A pharmaceutical composition comprising a compound of formula 1 according to claim 4
and a pharmaceutically acceptable excipient and/or carrier.

11. A pharmaceutical composition comprising a compound of formula **1** according to claim 5 and a pharmaceutically acceptable excipient and/or carrier.

12. A pharmaceutical composition comprising a compound of formula **1** according to claim 6
5 and a pharmaceutically acceptable excipient and/or carrier.

13. The pharmaceutical composition according to claim 7, further comprising an additional active substance selected from the group consisting of betamimetics, antiallergic agents, PAF-antagonists, leukotriene-antagonists, and steroids.

10

14. The pharmaceutical composition according to claim 8, further comprising an additional active substance selected from the group consisting of betamimetics, antiallergic agents, PAF-antagonists, leukotriene-antagonists, and steroids.

15

15. The pharmaceutical composition according to claim 9, further comprising an additional active substance selected from the group consisting of betamimetics, antiallergic agents, PAF-antagonists, leukotriene-antagonists, and steroids.

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16. The pharmaceutical composition according to claim 10, further comprising an additional active substance selected from the group consisting of betamimetics, antiallergic agents, PAF-antagonists, leukotriene-antagonists, and steroids.

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17. The pharmaceutical composition according to claim 11, further comprising an additional active substance selected from the group consisting of betamimetics, antiallergic agents, PAF-antagonists, leukotriene-antagonists, and steroids.

18. The pharmaceutical composition according to claim 12, further comprising an additional active substance selected from the group consisting of betamimetics, antiallergic agents, PAF-antagonists, leukotriene-antagonists, and steroids.

30

19. A method of treating diseases in which anticholinergics may provide a therapeutic benefit, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 1.
- 5 20. A method of treating diseases in which anticholinergics may provide a therapeutic benefit, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 2.
- 10 21. A method of treating diseases in which anticholinergics may provide a therapeutic benefit, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 3.
- 15 22. A method of treating diseases in which anticholinergics may provide a therapeutic benefit, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 4.
- 20 23. A method of treating diseases in which anticholinergics may provide a therapeutic benefit, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 5.
24. A method of treating diseases in which anticholinergics may provide a therapeutic benefit, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 6.
- 25 25. A method of treating asthma, COPD, vagally induced sinus bradycardia, heart rhythm disorders, spasms in the gastrointestinal tract, spasms in the urinary tract, or menstrual disorders, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 1.
- 30 26. A method of treating asthma, COPD, vagally induced sinus bradycardia, heart rhythm disorders, spasms in the gastrointestinal tract, spasms in the urinary tract, or menstrual

disorders, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 2.

27. A method of treating asthma, COPD, vagally induced sinus bradycardia, heart rhythm disorders, spasms in the gastrointestinal tract, spasms in the urinary tract, or menstrual disorders, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 3.

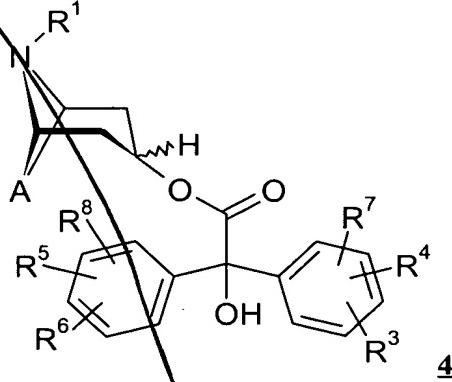
28. A method of treating asthma, COPD, vagally induced sinus bradycardia, heart rhythm disorders, spasms in the gastrointestinal tract, spasms in the urinary tract, or menstrual disorders, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 4.

29. A method of treating asthma, COPD, vagally induced sinus bradycardia, heart rhythm disorders, spasms in the gastrointestinal tract, spasms in the urinary tract, or menstrual disorders, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 5.

30. A method of treating asthma, COPD, vagally induced sinus bradycardia, heart rhythm disorders, spasms in the gastrointestinal tract, spasms in the urinary tract, or menstrual disorders, comprising administering to a host in need of such treatment a compound of formula 1 according to claim 6.

31. A compound of formula 4

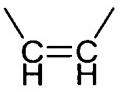
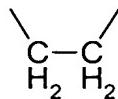
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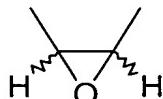
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wherein

A is a group selected from



and



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R^1 is a C₁-C₄-alkyl optionally substituted with hydroxy or halogen; and
 R^3 , R^4 , R^5 , R^6 , R^7 , and R^8 are each independently hydrogen, C₁-C₄-alkyl, C₁-C₄-alkyloxy, hydroxy, CF₃, CN, NO₂, or halogen,

with the proviso that at least one of the groups R^3 , R^4 , R^5 , R^6 , R^7 , and R^8 is not hydrogen.

10 32. The compound of formula **4** according to claim 31, wherein:

R^1 is a group selected from the group consisting of methyl, ethyl, *n*-propyl, and isopropyl, each optionally substituted by hydroxy or fluorine;

R^3 , R^4 , R^5 , R^6 , R^7 , and R^8 are each independently hydrogen, methyl, ethyl, methyloxy, ethyloxy, hydroxy, fluorine, chlorine, bromine, CN, CF₃, or NO₂.

15

33. The compound of formula **4** according to claim 31, wherein:

R^1 is methyl or ethyl; and

R^3 , R^4 , R^5 , R^6 , R^7 , and R^8 are each independently hydrogen, methyl, methyloxy, fluorine, chlorine, or bromine.

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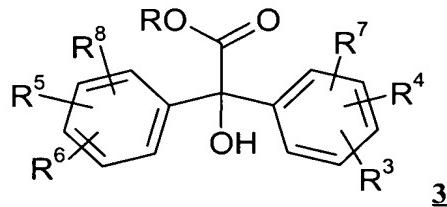
34. The compound of formula **4** according to claim 33, wherein:

R^3 , R^4 , R^5 , R^6 , R^7 , and R^8 are each independently hydrogen, fluorine, chlorine, or bromine.

35. The compound of formula **4** according to claim 31, wherein:

25 R^3 , R^4 , R^5 , R^6 , R^7 , and R^8 are each independently hydrogen or fluorine.

36. A compound of formula **3**



wherein:

R is C₁-C₄-alkyl; and

R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen, C₁-C₄-alkyl, C₁-C₄-alkyloxy,

5 hydroxy, CF₃, CN, NO₂, or halogen,

with the proviso that at least one of the groups R³, R⁴, R⁵, R⁶, R⁷, and R⁸ is not hydrogen.

37. The compound of formula 3 according to claim 36, wherein:

10 R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen, methyl, ethyl, methyloxy, ethyloxy, hydroxy, fluorine, chlorine, bromine, CN, CF₃, or NO₂.

38. The compound of formula 3 according to claim 36, wherein:

15 R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen, methyl, methyloxy, fluorine, chlorine, or bromine.

39. The compound of formula 3 according to claim 36, wherein:

R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen, fluorine, chlorine, or bromine.

20 40. The compound of formula 3 according to claim 36, wherein:

R³, R⁴, R⁵, R⁶, R⁷, and R⁸ are each independently hydrogen or fluorine.